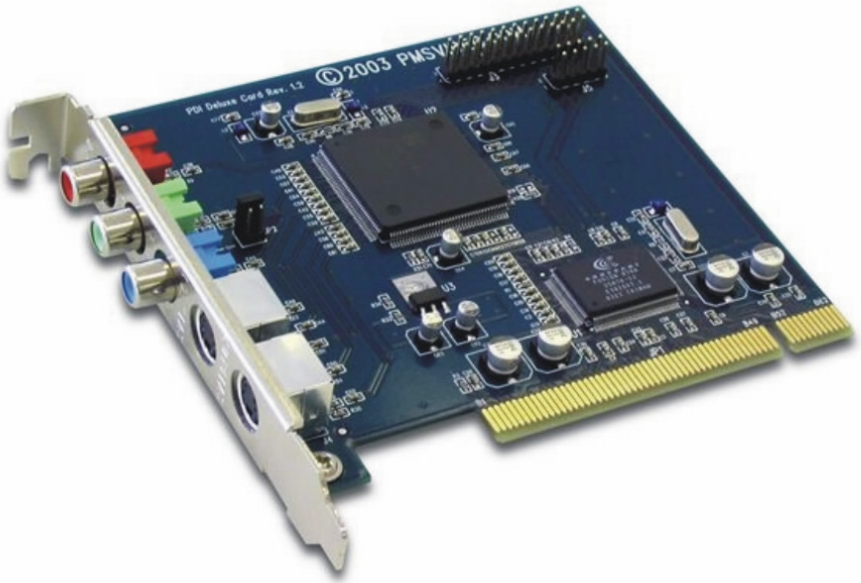
PMS PDI Deluxe

User's Manual



PMS AV Solutions

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Please address comments or questions to:

Address:
PMS Video Ltd.
Unit 111, Innovation Center,
No.6 Science Park West,
Hong Kong Science Park,
Pak Shek Kok, Hong Kong

Phone: (852) 9818-3847
Fax: (852) 3186-2352
E-mail: info@pmsvideo.com
Website: www.pmsvideo.com
Support Forum:
www.pmsvideoforum.com

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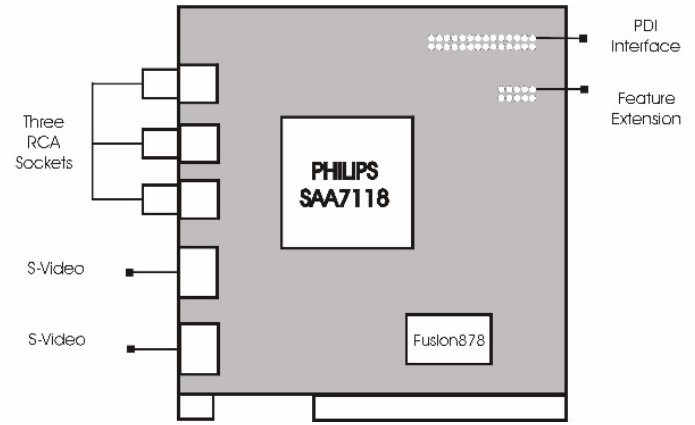
Chapter 1:Product Description

The PDI (Parallel Digital Interface) Deluxe Card is not only designed to work with the Realmagic Xcard or 100% compatible MPEG2/MPEG4 decoder card, but it also provides a set of analog inputs for video processing of various input sources. This solution combines the power of sophisticated deinterlacing, video processing and scaling capability of the DScaler software, and represents a revolution in the HTPC (home theater PC) history. The result turns a personal computer into a high performance digital media player and video processor/scaler and delivers unprecedented high quality video in home theaters.

Physical Dimensions:

- Height: 11cm
- Length: 13cm



Features:

- Easy to install
- 32-bit PCI bus mastering, Plug-n-Play compliant
- 26-pin connector compatible with the digital video output of Realmagic Xcard
- Analog Video Inputs: Component, RGB, RGBS, S-Video and Composite
- Video formats supported: 480i (NTSC) and 576i (PAL)
- Fully compatible with the DScaler software
- Supports Microsoft Windows 98/ME/2000/XP

Input Specifications:

- One Parallel Digital Interface (PDI)
- Three RCA sockets can be used as:
  -One component
  -Three composites
  -RGB(Sync on Green)
  -RGBS (SCART) - One S-video is used for sync input
- Two S-videos - Each S-video can be used as two composite inputs*

*S-video to composite conversion cables are not included

System Requirements:

- Intel P4 1GHz or higher, or compatible computer
- One available PCI 2.1 compliant slot
- Realmagic Xcard or 100% compatible MPEG2/MPEG4 decoder card
- An AGP video card
- DRAM: 128MB or more
- Extra disk space: 10MB or more
- Microsoft Windows 98/ME/2000/XP
- Graphic subsystem with DirectX 8.0 or higher

PDI Deluxe Card includes:

1. One PMS PDI Deluxe Card
2. One PMS PDI Deluxe card to Xcard Ribbon Cable
3. User Manual CD and Software

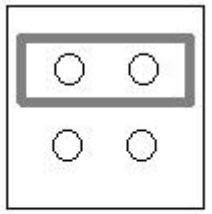
Chapter 2:Hardware Installation

Static electricity can damage your equipment. Do not remove the PMS PDI Deluxe card from the anti-static bag until you are ready to install it into a PC. Also limit your movement since movement builds up static electricity.

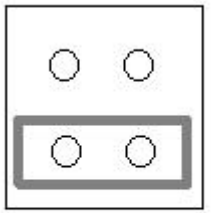
Hardware Installation

If you do not have a Realmagic Xcard, skip 2 and 3:

1. Turn off your computer FIRST. Remove the case cover and insert this PDI Deluxe card into your computer's PCI slot.
2. Connect the PDI Deluxe Capture Card to the Realmagic Xcard through the 26-pin ribbon cable shipped with the PDI Capture Card. The red line of the ribbon cable should be at the left as shown in the following picture.
3. Make sure the adapter card is well seated in the slot before fasten it with screws. Finally, replace case.
4. Set the corresponding jumper according to your need. To use Component Input or RGsB, set to "Sync on Y / G". To use RGBS, set to "Separate Sync".

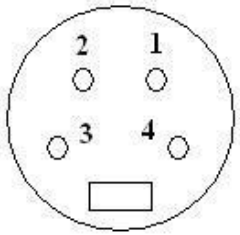


Sync on Y / G



Separate Sync

5. The two S-Video inputs on the PDI Deluxe card can be re-used as four Composite inputs. You need a special cable (i.e. this is NOT included in the package) for each S-Video socket in order to feed the composite signals into the corresponding pins inside the S-Video socket. Here is the pin arrangement for this use:



1 : Composite 1 over S-Video

2 : Composite 2 over S-Video

3, 4 : Ground

6. After finishing the above procedure, you may begin to install the driver and software.

Chapter 3:Software Installation

DScaler 4.1.X Installation

1. After turn on your computer, place the Utility CD into the CD-ROM. If you don't have the CDROM, please download the driver from PMS Video's web site.
2. When the New Hardware Found message appears, choose "Cancel" for all. (i.e. Normally, we do not need to install the device driver because DScaler can drive the PDI Deluxe card directly. Please refer to the appendix in case you want to install the driver for any reason.)

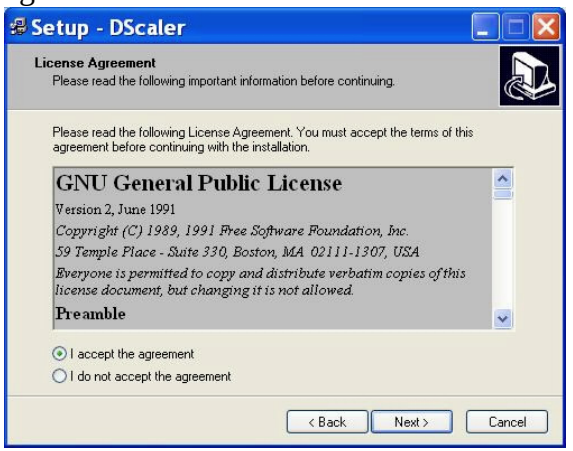
   Note: *To permanently stop the pop-up message of "New Hardware Found" each time boot-up, please go to "**My Computer > Property > Hardware > Device Manager**" and you should see the device with a **?** mark. This is possibly the unknown devices of the PDI Deluxe card. Right click the ? mark device and select **Disable**. Then right click it again and select **Enable**. Then Windows won't find the 2 devices again and ask for driver when next boot up.*

3. Double Click the "Dscaler417p.exe" to run the DScaler setup program. If you don't have the CDROM, please download the driver from PMS Video's web site.

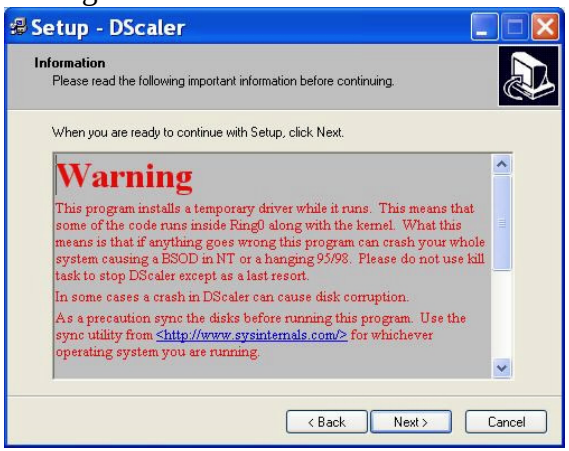
4. Click "NEXT" to continue.

Setup - DScaler
Welcome to the DScaler Setup Wizard
This will install DScaler 4.1.7p on your computer.
It is recommended that you close all other applications before continuing.
Click Next to continue, or Cancel to exit Setup.
Next >
Cancel

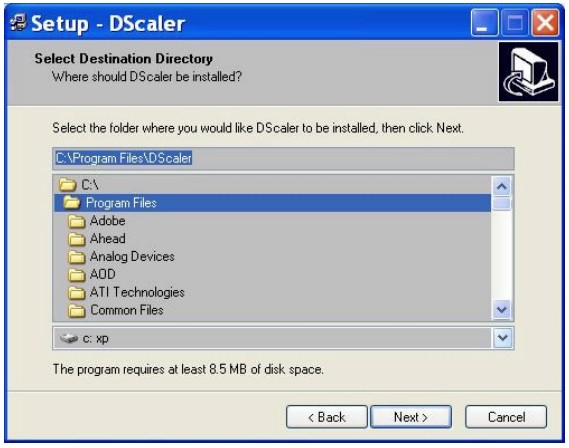
5. Click "YES" after reading the license agreement.


Setup - DScaler
License Agreement
Please read the following important information before continuing.
Please read the following License Agreement. You must accept the terms of this agreement before continuing with the installation.
GNU General Public License
Version 2, June 1991
Copyright (C) 1989, 1991 Free Software Foundation, Inc.
59 Temple Place - Suite 330, Boston, MA 02111-1307, USA
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.
Preamble
I accept the agreement
I do not accept the agreement
< Back
Next >
Cancel

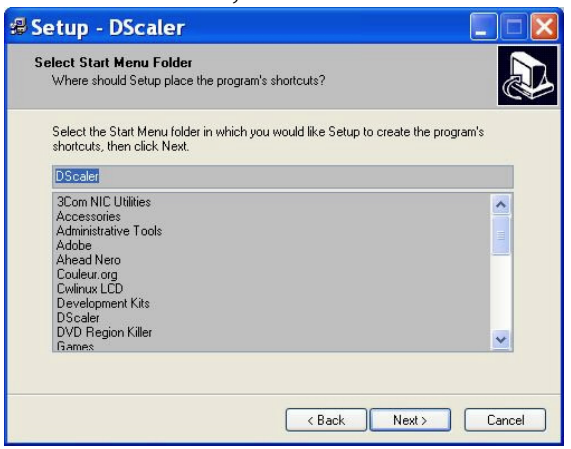
6. Click "NEXT" after reading the warning message.


Setup - DScaler
Information
Please read the following important information before continuing.
When you are ready to continue with Setup, click Next.
Warning
This program installs a temporary driver while it runs. This means that some of the code runs inside Ring0 along with the kernel. What this means is that if anything goes wrong this program can crash your whole system causing a BSOD in NT or a hanging 95/98. Please do not use kill task to stop DScaler except as a last resort.
In some cases a crash in DScaler can cause disk corruption.
As a precaution sync the disks before running this program. Use the sync utility from <http://www.sysinternals.com/> for whichever operating system you are running.
< Back
Next >
Cancel

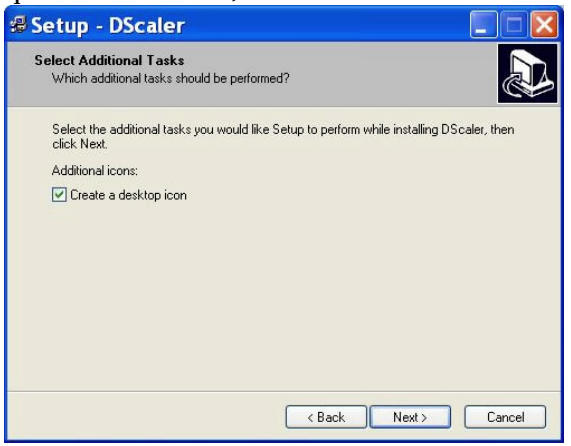
7. Click "NEXT" after choosing the folder for installation.



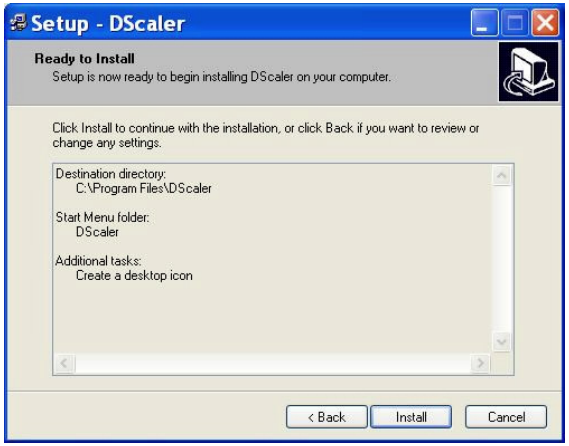
8. Select or create the Start Menu folder for DScaler shortcuts, then Click “NEXT".



9. Choose to/not to create desktop icon and quick launch icon, then Click "NEXT".


Setup - DScaler
Select Additional Tasks
Which additional tasks should be performed?
Select the additional tasks you would like Setup to perform while installing DScaler, then click Next.
Additional icons:
Create a desktop icon
< Back
Next >
Cancel

10. Click “Install".

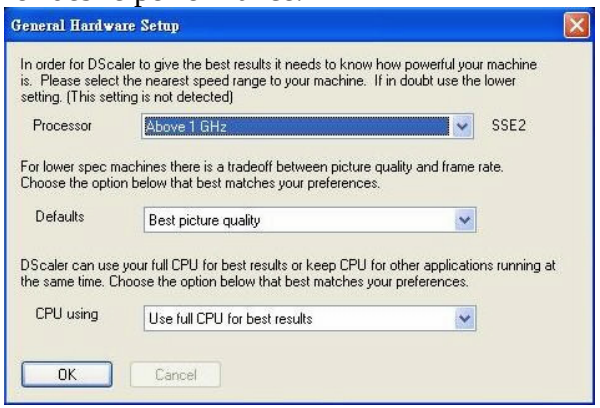

Setup - DScaler
Ready to Install
Setup is now ready to begin installing DScaler on your computer.
Click Install to continue with the installation, or click Back if you want to review or change any settings.
Destination directory:
C:\Program Files\DScaler
Start Menu folder:
DScaler
Additional tasks:
Create a desktop icon
< Back
Install
Cancel

11. Choose to/not to launch DScaler program after finishing installation, then Click "Finish".

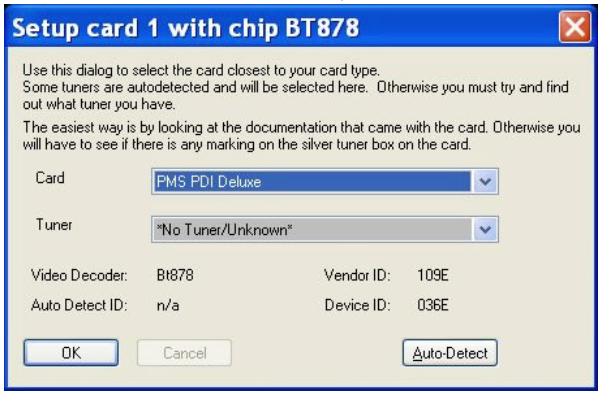
Setup - DScaler
Completing the DScaler Setup Wizard
Setup has finished installing DScaler on your computer. The application may be launched by selecting the installed icons.
Click Finish to exit Setup.
Launch DScaler
Finish

DScaler Setting:

1. Set CPU information after launching DScaler for desire performance.


General Hardware Setup
In order for DScaler to give the best results it needs to know how powerful your machine is. Please select the nearest speed range to your machine. If in doubt use the lower setting. (This setting is not detected)
Processor
Above 1 GHz
SSE2
For lower spec machines there is a tradeoff between picture quality and frame rate. Choose the option below that best matches your preferences.
Defaults
Best picture quality
DScaler can use your full CPU for best results or keep CPU for other applications running at the same time. Choose the option below that best matches your preferences.
CPU using
Use full CPU for best results
OK
Cancel

2. Select "PMS PDI Deluxe", then Click "OK".


Setup card 1 with chip BT878
Use this dialog to select the card closest to your card type.
Some tuners are autodetected and will be selected here. Otherwise you must try and find out what tuner you have.
The easiest way is by looking at the documentation that came with the card. Otherwise you will have to see if there is any marking on the silver tuner box on the card.
Card
PMS PDI Deluxe
Tuner
No Tuner/Unknown
Video Decoder:
Bt878
Vendor ID:
109E
Auto Detect ID:
n/a
Device ID:
036E
OK
Cancel
Auto-Detect

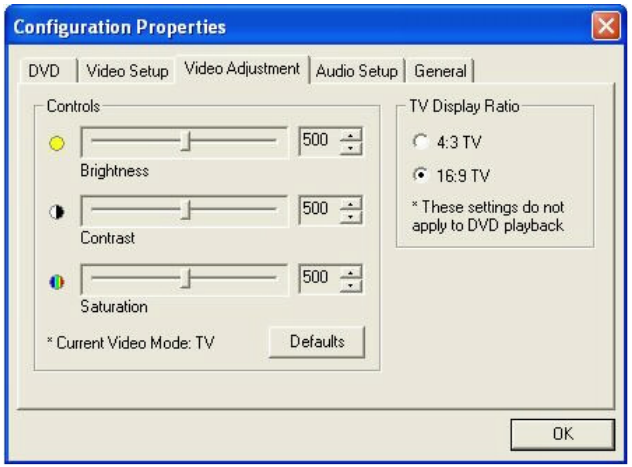
3. Then you need to set the "Video Adjustments" of DScaler to match your display. If you don't bother to fine tune the parameters by yourself, you may use default setting in DScaler instead.

Chapter 4:Appendix

Xcard Setting:

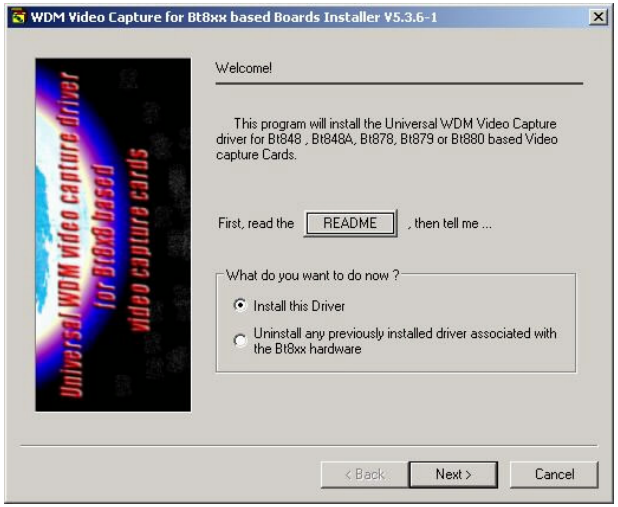
You can set the "Video Adjustment" of XMedia to the following for optimal picture quality.

1. Brightness = 500 (default value is 600)
2. Contrast = 500
3. Saturation = 500

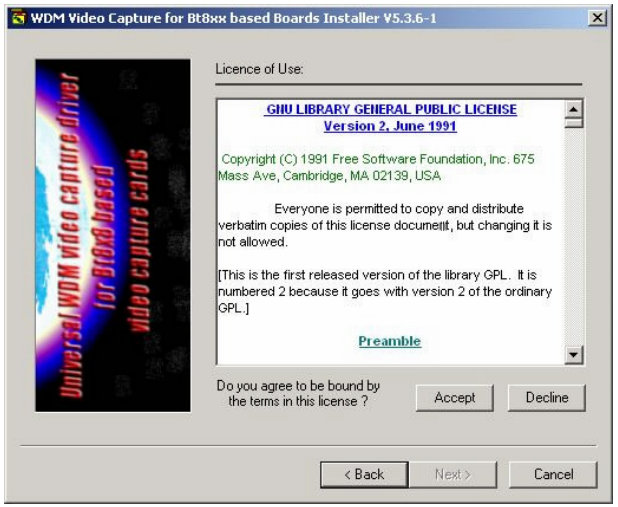


Fusion BT878A driver Installation:

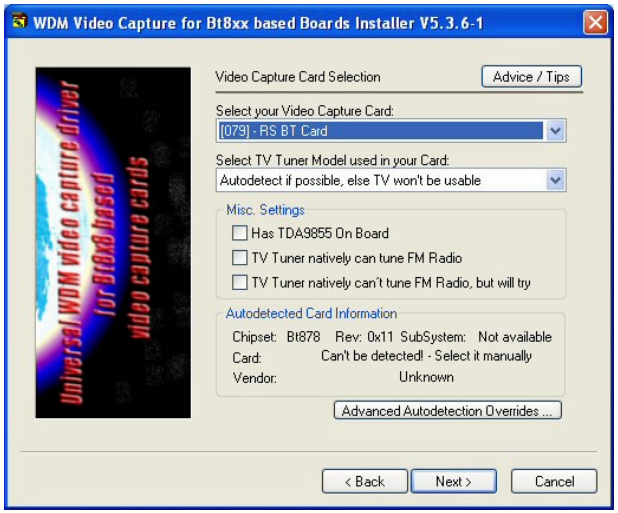
1. After turn on your computer, place the Utility CD into the CD-ROM. If you don't have the CDROM, please download the driver from PMS Video's web site.
2. When the New Hardware Found message appears, choose "Cancel" for all.
3. Double Click the "Btinstaller.exe" program under "PMS_Video-Driver & Application".
4. Choose "Install this Driver", then Click "NEXT".


WDM Video Capture for Bt8xx based Boards Installer V5.3.6-1
Universal WDM video capture driver for Bt8x8 based video capture cards
Welcome!
This program will install the Universal WDM Video Capture driver for Bt848 , Bt848A, Bt878, Bt879 or Bt880 based Video capture Cards.
First, read the README , then tell me ...
What do you want to do now ?
Install this Driver
Uninstall any previously installed driver associated with the Bt8xx hardware
< Back
Next >
Cancel

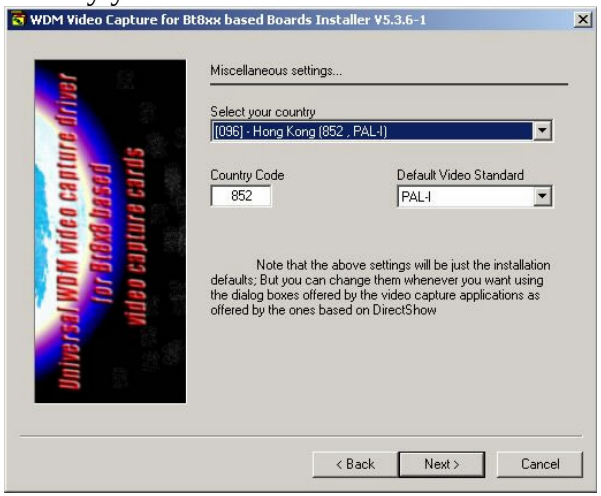
5. Choose "Accept" after reading the license agreement, then Click "NEXT".


WDM Video Capture for Bt8xx based Boards Installer V5.3.6-1
Universal WDM video capture driver for Bt8x8 based video capture cards
Licence of Use:
GNU LIBRARY GENERAL PUBLIC LICENSE
Version 2, June 1991
Copyright (C) 1991 Free Software Foundation, Inc. 675 Mass Ave, Cambridge, MA 02139, USA
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.
[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]
Preamble
Do you agree to be bound by the terms in this license ?
Accept
Decline
< Back
Next >
Cancel

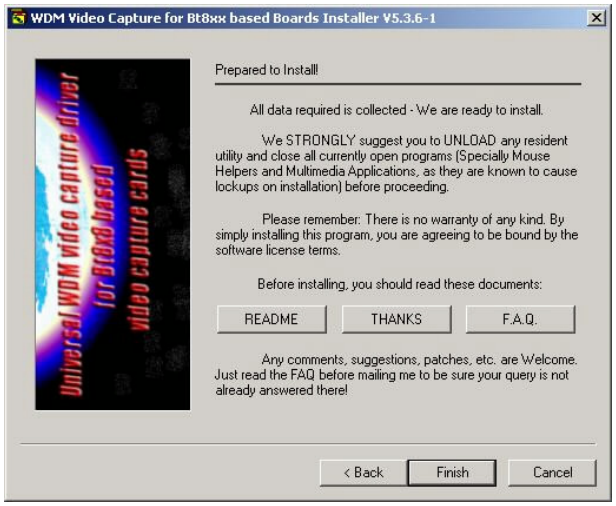
6. Choose "RS BT Card" as Video capture Card and leave everything else as default, then Click "NEXT".


WDM Video Capture for Bt8xx based Boards Installer V5.3.6-1
Universal WDM video capture driver for Bt8x8 based video capture cards
Video Capture Card Selection
Advice / Tips
Select your Video Capture Card:
[079] - RS BT Card
Select TV Tuner Model used in your Card:
Autodetect if possible, else TV won't be usable
Misc. Settings
Has TDA9855 On Board
TV Tuner natively can tune FM Radio
TV Tuner natively can't tune FM Radio, but will try
Autodetected Card Information
Chipset: Bt878 Rev: 0x11 SubSystem: Not available
Card: Can't be detected! - Select it manually
Vendor: Unknown
Advanced Autodetection Overrides ...
< Back
Next >
Cancel

7. Choose your country and it will automatically select one standard as default, then Click "NEXT". There is no tuner on the PDI capture card so it actually does not matter which country you choose.


WDM Video Capture for Bt8xx based Boards Installer V5.3.6-1
Universal WDM video capture driver for Bt8x8 based video capture cards
Miscellaneous settings...
Select your country
[096] - Hong Kong (852 , PAL-I)
Country Code
852
Default Video Standard
PAL-I
Note that the above settings will be just the installation defaults; But you can change them whenever you want using the dialog boxes offered by the video capture applications as offered by the ones based on DirectShow
< Back
Next >
Cancel

8. Click "Finish" to complete the driver installation.


WDM Video Capture for Bt8xx based Boards Installer V5.3.6-1
Universal WDM video capture driver for Bt8x8 based video capture cards
Prepared to Install!
All data required is collected - We are ready to install.
We STRONGLY suggest you to UNLOAD any resident utility and close all currently open programs (Specially Mouse Helpers and Multimedia Applications, as they are known to cause lockups on installation) before proceeding.
Please remember: There is no warranty of any kind. By simply installing this program, you are agreeing to be bound by the software license terms.
Before installing, you should read these documents:
README
THANKS
F.A.Q.
Any comments, suggestions, patches, etc. are Welcome. Just read the FAQ before mailing me to be sure your query is not already answered there!
< Back
Finish
Cancel

NOTE: If you're using either 2000/XP, OS may ask if you want to continue install this driver twice during installation. Click "Continue to install".

Chapter 5:Limited Warranty

PMS Video Product One-Year Warranty Policy: (for all Online customers)

PMS Video Ltd.("PMS") warrants SDI Capture Card, SDI Converter DIY Kit, PDI Capture Card, Pre-modified Panasonic RP82 DVD player with SDI Output, PDI Capture Card + Xcard Combo, Pre-modified Pioneer DV-S755Ai DVD player with SDI Output, PDI Deluxe Card and PDI Deluxe + Xcard Combo for One-Year from date of purchase to the original purchaser that this product is free from defects in material and workmanship. If, after inspection, you discover any defects in material or workmanship, PMS will have the option to repair, or replace the defective PMS product free of charge. This one-year warranty does not cover damages from normal wear and tear or from accidental damage, misuse, improper care, alterations and damage caused in transportation by a common carrier or airline.

There are no other warranties expressed or implied, including, but not limited to, the implied warranties of merchantability and the fitness for a particular purpose beyond the terms of this one-year warranty. The one-year warranty offered by PMS herein may not be modified by any oral representations made by any employee, agent or representative of PMS.

Repair or replacement as provided under this warranty is the exclusive remedy of the consumer. PMS shall not be liable for any incidental or consequential damages for breach of any expressed or implied warranty on this product, except to the extent prohibited by applicable law, any implied warranty of merchantability or fitness for a particular purpose on this product is limited in duration to the duration of this warranty. If you need to have your PMS product repaired or replaced under the conditions of this one-year warranty, please contact customer service at +(852) 2607-4055 or email us at sales@pmsvideo.com

PMS Video Product Warranty Policy: (for Non-Online customers)

For Non-Online customers (i.e. not purchase from our website), please contact us directly at +(852) 2607-4055/ sales@pmsvideo.com for our special warranty policy.

Limitation of Liability: (for all PMS customers)
BOTH YOURS AND PMS'S LIABILITY SHALL BE LIMITED TO THE PRICE PAID FOR PRODUCT. IN NO EVENT SHALL EITHER YOU OR PMS BE LIABLE TO THE OTHER FOR ANY INDIRECT, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM PERFORMANCE OR FAILURE TO PERFORM UNDER THIS AGREEMENT, OR USE OF ANY GOODS OR SERVICE SOLD PURSUANT HERETO, WHETHER DUE TO A BREACH OF CONTRACT, BREACH OF WARRANTY, NEGLIGENCE , OR OTHERWISE. NEITHER YOU NOR PMS SHALL HAVE ANY LIABILITY TO THE OTHER FOR INDIRECT OR PUNITIVE DAMAGES, OR FOR ANY CLAIM BY ANY THIRD PARTY EXCEPT AS EXPRESSLY PROVIDED HEREIN.